

Title (en)
FUEL INJECTION VALVE

Title (de)
KRAFTSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 3006719 A4 20160413 (EN)

Application
EP 14807706 A 20140519

Priority
• JP 2013116609 A 20130603
• JP 2014063183 W 20140519

Abstract (en)
[origin: EP3006719A1] Provided is a fuel injection valve where it is possible to suppress the occurrence of a damage on a valve seat portion of a control valve of a back pressure control part caused by a foreign substance in high pressure fuel. An inlet connector having an introducing passage for high pressure fuel is mounted on an inlet opening portion of a housing, a fuel chamber is formed between an end surface portion of the inlet connector and a bottom surface portion of the inlet opening portion, a first fuel passage which communicates with a nozzle side opens at an outer peripheral portion of the bottom surface portion within a region of the fuel chamber, and a second fuel passage which communicates with a back pressure control part side opens at a center portion, and the inlet connector is configured such that high pressure fuel introduced into the fuel chamber from the inlet connector is capable of forming a swirl flow.

IPC 8 full level
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CPC (source: EP)
F02M 47/027 (2013.01); **F02M 55/008** (2013.01); **F02M 55/02** (2013.01); **F02M 61/162** (2013.01); **F02M 61/165** (2013.01); **F02M 2200/02** (2013.01); **F02M 2200/27** (2013.01)

Citation (search report)
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• [Y] JP 2003065180 A 20030305 - DENSO CORP
• [Y] US 2003121997 A1 20030703 - DANTES GUENTER [DE], et al
• [Y] US 2001010341 A1 20010802 - KOIZUMI MASAHIRO [JP], et al
• [A] JP 2006336594 A 20061214 - DENSO CORP
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Designated contracting state (EPC)
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